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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,191	10/684,191 10/14/2003		Long Bao Zhang	USDP2274A-ALL	8860
30265	7590	02/17/2006	EXAMINER		NER
RAYMON		- '	HAN, J	HAN, JASON	
108 N. YNE MONTERE				ART UNIT	PAPER NUMBER
WOWE	,			2875	-
				DATE MAILED: 02/17/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/684,191	ZHANG, LONG BAO		
Office Action Summary	Examiner	Art Unit		
	Jason M. Han	2875		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on 12 2a)⊠ This action is FINAL. 2b)□ TH 3)□ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. vance except for formal matters, pre			
Disposition of Claims				
4) ⊠ Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withded 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 2 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Exami 10) ☑ The drawing(s) filed on 14 October 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) ☐ The oath or declaration is objected to by the	re: a)⊠ accepted or b)☐ objected ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

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DETAILED ACTION

Response to Arguments

1.	Applicant's arguments with respect to Claims 1-2 have been considered but are
moot	in view of the new ground(s) of rejection.
The f	ollowing claims have been rejected in light of the specification, but rendered the
broad	dest interpretation as stated by the Applicant and as construed by the Examiner
[MPE	P 2111].

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Nishihashi et al. (U.S. Patent 5038255).

Nishihashi discloses a light source arrangement including:

- An electric input adapter [Figures 1, 4: (8)] for electrically connecting with a power source [Column 3, Lines 19-22];
- A light head including:
 - A supporting frame [Figure 1: (2)], which is made of good heat
 conduction material [Column 2, Lines 52-55], with at least a dissipating

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end [Figure 1: (22)] and a peripheral surface provided thereon [Figure 1: (4)]; and

- A luminary unit including:
 - = A circuit [Figures 3, 5: (41-42)] provided on said peripheral surface of said supporting frame and electrically connected with said electric input adapter [Figures 1, 4: (7)], and
 - At least a luminary element [Figure 1: (5A)] having two terminal electrodes [Figure 3: (51)] electrically connecting to the circuit for emitting light when the terminal electrodes are electrified, whereby the luminary element [Figures 1, 4: (5A)] is mounted on the peripheral surface [Figures 1, 4: (4)] of the supporting frame [Figures 1, 4: (2)] such that the supporting frame is adapted for transmitting and dissipating heat from the luminary element at the dissipating end [Figures 1, 4: (22)].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2 rejected under 35 U.S.C. 103(a) as being unpatentable over Ruskouski (U.S. Patent 5655830) in view of Begemann (U.S. Patent 6220722).

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4. With regards to Claim 1, Ruskouski discloses a light source arrangement including:

- An electric input adapter [Figure 6: (68-69)] for electrically connecting with a power source [Column 1, Line 66 Column 2, Line 5];
- A light head [Figure 6: (15)] having a supporting frame [Figure 6: (105, 107)] with at least a dissipating end [Figure 6: (22)] and a peripheral surface provided thereon [Figure 6: side face where (107) is disposed]; and
- A luminary unit having a circuit [Figure 6: (40, 55, 59)] provided on said peripheral surface of said supporting frame and electrically connected with said electric input adapter [Column 6, Lines 55-59], and at least a luminary element [Figures 6-7: (100)] having two terminal electrodes [Figure 7: (112, 120)] electrically connecting to the circuit for emitting light when the terminal electrodes are electrified, whereby the luminary element is mounted on the peripheral surface of the supporting frame.

Ruskouski does not specifically teach the supporting frame being made of a good heat conduction material such that the supporting frame is adapted for transmitting and dissipating heat from the luminary element at the dissipating end.

Begemann teaches, "If LEDs with a high luminous flux (5lm or more) are used, then a so-called metal-core PCB is customarily used. Such PCBs have a relatively high heat conduction. By providing these PCBs on the (preferably metal) substrate by means of a heat-conducting adhesive, a very good heat dissipation from the LED arrays to the gear column is obtained" [Column 2, Lines 53-59].

It would have been obvious to one ordinarily skilled in the art at the time of invention to modify the light source arrangement of Ruskouski, specifically the supporting frame, to incorporate the commonly known MC-PCB (metal-core PCB) of Begemann in order to provide good heat dissipation away from the luminary element, as corroborated by Begemann above.

5. With regards to Claim 2, Ruskouski in view of Begemann discloses the claimed invention as cited above. In addition, Ruskouski teaches the luminary element being a single bonded diode [Figure 7: (110)], wherein one of the terminal electrodes is electrically connected to the supporting frame while another terminal electrode is electrically connected to the circuit.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Han whose telephone number is (571) 272-2207. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M Han Examiner Art Unit 2875

JMH (2/15/2006)